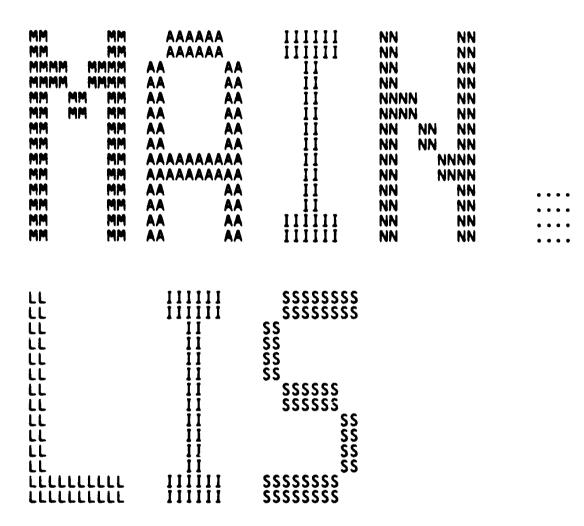
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.TITLE MACSMAIN ENTRY POINT TO VAX-11 MACRO .IDENT 'V04-000'
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              * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY TOTAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
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                    ALL RIGHTS RESERVED.
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                    OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
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                   THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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                    SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
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              ; FACILITY:
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                                    VAX MACRO ASSEMBLER OBJECT LIBRARY
0000
          31
          32
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0000
                 ABSTRACT:
0000
0000
                 The VAX-11 MACRO assembler translates MACRO-32 source code into object
                 modules for input to the VAX-11 LINKER.
0000
           35
0000
           36
0000
                 ENVIRONMENT: USER MODE
0000
0000
           39
                 AUTHOR: Benn Schreiber, CREATION DATE: 25-AUG-78
0000
          40
0000
          41
                 MODIFIED BY:
          42
0000
                         V03-005
                                              MTR0031
0000
                                                                    Mike Rhodes
                                                                                                    12-Apr-1983
                                    Add code to MAC_DEAL_MEM to release dynamic memory structures used for the .LINK directive.
0000
0000
          45
0000
                                    MTR0026 Mike Rhodes 23-feb-198 Correct the resetting of the related file name size when performing multiple file assemblies.
0000
                         V03-004
                                                                                                     23-feb-1983
0000
0000
0000
0000
          51
                                               MTR0021
                         V03-003
                                                                    Mike Rhodes
                                                                                                     20-Aug-1982
          5255
0000
                                    Correct returning of most severe status for single module
0000
                                    assemblies containing an error.
0000
                                               MTR0018
0000
                         v03-002
                                                                    Mike Rhodes
                                                                                                      7-Jun-1982
                                   Add logic to MACRO EXIT (et. al.) to retain the most severe status of multiple assemblies for the job's exit status.
0000
```

MACSMAIN VO4-000	ENTRY POINT	TO VAX-11 MACRO	G 13 16-SEP-1984 02:10:18 VAX/VMS Macro V04-00 Page 2 5-SEP-1984 01:49:19 [MACRO.SRC]MAIN.MAR;1 (1)
	0000 0000 0000 0000 0000 0000 0000 0000 0000	58 : 59 : V03-001 60 : 61 : 62 : 63 : 64 :	MTR0015 Mike Rhodes 7-Jun-1982 Add a CLRB W^MAC\$INPUT_RLFNM+NAM\$B_RSL to reset the related file size, as well as the address. This corrects a multiple file assembly problem where the second file name is smaller than the first and a related file (suc as a library) is present.
	0000 0000 0000	64 : 65 : 66 : V02-048 67 :	BLS0143 Benn Schreiber 6-Feb-1982 Change MOVZBL to MOVZWL due to nam\$c_maxrss increase.
	0000 0000 0000 0000	68 69 v02-047 70 71 72 73	BLS0057 Benn Schreiber 13-Jun-1981 Corrrect addressing modes to general

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13.0000

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0016

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CLEAR ALL FLAGS

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MOVAB

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ENTRY POINT TO VAX-11 MACRO

VAX-11 MACRO ASSEMBLER ENTRY POINT

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MAC\$MAIN V04-000 ENTRY POINT TO VAX-11 MACRO VAX-11 MACRO ASSEMBLER ENTRY POINT

16-SEP-1984 02:10:18 VAX/VMS Macro V04-00 5-SEP-1984 01:49:19 [MACRO.SRCJMAIN.MAR;1

age g

00F1 30 0106 207 FF19 31 0109 208 BSBW MAC_DEAL_MEM GET_CMD

DEALLOCATE DYNAMIC MEMORY STRUCTURES; GO GET THE NEXT INPUT FILE

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7 (4)

SMAIN -000	ENTRY POINT TO V SETUP GLOBAL STO	
	010C 210 010C 211	.SBTTL SETUP GLOBAL STORAGE TO PROCESS A COMMAND
	010C 212 010C 213	:++ : FUNCTIONAL DESCRIPTION:
	0100 214 0100 215 0100 216 0100 217 0100 218 0100 219	THIS ROUTINE INITIALIZES GLOBAL STORAGE IN PREPARATION FOR PROCESSING A COMMAND LINE.
0000'8F 00 6E 00 0000'CF	010C 220 2C 010C 221 0113	MAC\$SETUP: MOVC5 #0,(SP),#0,#MAC\$GK_IMP_SIZ,W^MAC\$GL_IMP_BEG;CLEAR
0200 8F 00 6E 00	0116 222 2C 0116 223	:IMPURE STORAGE MOVC5 #0,(SP),#0,# <hashsz+1>*4,- ;ZERO THE USER SYMBOL HASH TABLE</hashsz+1>
0200 8F 00 6E 00 0000'CF	011D 224 2C 0120 225 0127 226 012A 227	W^MAC\$AL_USYHSHTB MOVC5 #0,(SP),#0,# <hasrsz+1>*4,- ;ZERO THE USER MACRO HASH TABLE W^MAC\$AL_UMCHSHTB</hasrsz+1>
	012A 228	Translate logical name SYS\$LP_LINES to get lines/page value.
00000000 GF 00 0000 CF 50 09	012A 229 FB 012A 230 C3 0131 231 0137 232 0137 233 0137 234 0137 235	CALLS #0,G^LIB\$LP_LINES ; Get number of lines SUBL3 #9,R0,W^MAC\$GL_LN_PAGE ; Set size allowing for 3 line top ; margin, 3 line bottom margin and ; 3 lines for header
	0137 234 0137 235	: INITIALIZE LISTING HEADER BUFFER
0000'8F 20 6E 00	0137 236 2C 0137 237 013E 238	MOVC5 WO, (SP), MAA/ /, MMAC\$K_HD_SIZE, - ; SET BUFFER TO SPACES
0000'8F 20 6E 00	20 0141 239	W^MAC\$AB_HD_TITLE MOVC5 #0,(SP),#^A/ /.#MAC\$K_SBT_SIZ,- ;SET SUBTITLE BUFFER TO SPACES
0000'CF 50 0000'CF 51 80	0148 240 9E 014B 241 9A 0150 242	W^MAC\$AB_SBT_IDNT
0000'CF 60 51 50 0000'CF	28 0153 243	MOUCZ OF IOON HAMACRAD HE HERCH LOON HERCHON THITO DIFFER
0000°CF 60 51	9E 0159 244 9A 015E 245 28 0161 246	MOVAB W^MAC\$AB_DEF_TITE_RO ; Point to default title MOVZBL (RO)+,R1 ;GET_LENGTH OF DEFAULT TITLE MOVC3 R1,(RO),W^MAC\$AB_HD_TITLE;SET_AS_DEFAULT HD_TITLE \$ASCTIM_S TIMBUF=W^MAC\$AE_ATIM_DSC; Set time into buffer MOVAB W^MAC\$AB_HD_PAGE_RO ;POINT TO WHERE PAGE GOES MOVQ W^A/Page O/,(RO)+ ; Store 'Page O' BISL2 WFLG\$M_EVALEXPR,(R11) ;SET_EVALUATE_EXPRESSION MOVL W1,W^MAC\$GL_LSB ;START_IN_LSB_1 CVTBL W-1,W^MAC\$GL_LIST_IT ;ASSUME_LISTING MOVW W30000W^MAC\$GL_ERSYM ;START_CREATED_SYMBOLS_AT_30000.
500000 CF	0167 247	\$ASCTIM_S TIMBUF=W^MAC\$AE_ATIM_DSC; Set time into buffer
80 30202020 65676150 8F 6B 00000040 8F	7D 017D 249 C8 0188 250 D0 018F 251	MOVQ #^A/Page 0/.(R0)+ ; Store 'Page 0'
0000'CF 01	DO 018F 251	MOVL #1, W^MAC\$GL LSB ;START IN LSB 1
0000 CF FF 8F 0000 CF 7530 8F 02	9E 0178 248 7D 017D 249 C8 0188 250 D0 018F 251 98 0194 252 B0 019A 253 90 01A1 254	MOVW #30000. W MATSGL_TRSYM ; START CREATED SYMBOLS AT 30000. MOVB #RDX\$V_DECIMAL. = ; SET RADIX TO DECIMAL
0000'ČF 50 0000'ÇF	7D 017D 249 C8 0188 250 D0 018F 251 98 0194 252 B0 019A 253 90 01A1 254 01A3 255 9E 01A6 256 D0 01AB 257 DE 01AE 258 9E 01B1 259	MOVB #RDX\$V_DECIMAL,- ;SET RADIX TO DECIMAL W^MAC\$GB_RDXNDX MOVAB W^MAC\$GL_INTQUE,RO ;INIT THE INT. FILE QUEUE
60 50 60 80	00 01AB 257 DE 01AE 258	MOVL RO (RO) MOVAL (RO)+,(RO)
50 0000°CF	9E 01B1 259	MOVAB W^MAC\$GL INPQUE.RO :INIT THE INPUT FILE QUEUE
60 50 60 80 50 0000'CF	DE 01AE 258 9E 01B1 259 D0 01B6 260 DE 01B9 261 9E 01BC 262 D0 01C1 263 DE 01C4 264	MOVL RO,(RO) MOVAL (RO)+,(RO) MOVAB W^MAC\$GL_ERR_LIST,RO ; INIT THE ERROR LIST QUEUE
60 50 60 80	00 01C1 263 DE 01C4 264	MOVL RO.(RO) ; MOVAL (RO)+ (RO)
50 0000°CF	9E 01C7 265	MOVAB WAMACSGLEREELST, RO ; INIT THE FREE PAGES LIST

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MACSMAIN VO4-000		ENTRY	POINT GLOBAL	TO VAX-1	1 MACRO TO PROCESS	M 13 A COMMAN	16-SEP-1984 5-SEP-1984	02:10:18 01:49:19	VAX/VMS Macro VO4-00 [MACRO.SRC]MAIN.MAR;1	Page	8 (4)
	60 50 60 80 50 0000 CF 0000 CF 0F A0 05 A0 50 0000 CF 60 50 60 80 0000 CF 01 0000 CF 01 FE06'	94 96 00 06 94 94	01CC 01CF 01D2 01D7 01DC 01E2 01E7 01EA 01ED 01F2	266 267 268 270 271 273 273 275 277	MOVAL	(RO)+,(RO #1.W^MACS	LANK,RO GL_PSECTPTR LOC(RO) LGTH(RO) SYM_PAGL,RO	START START INIT 1 PSECT START	THE SYMBOL PAGES QUEUE	RETURN	

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		ENTR DEAL	Y POINT LOCATE D	TO VAX-11 YNAMIC ME	MACRO MORY STRUC	N 13 TURES 16-SEP-1984 02 5-SEP-1984 01	:10:18 VAX/VMS Macro VO :49:19 [MACRO.SRC]MAIN.	4-00 Page MAR;1
			01FA 01FA	279 280	.SBTTL	DEALLOCATE DYNAMIC MEMOR	RY STRUCTURES	
			01FA 01FA	279 280 281 :++ 282 : FUNI 283 : 284 : 285 : 286 : 287 :	TIONAL DE	SCRIPTION:		
			01FA 01FA 01FA	284 : 285 :	THIS RO	UTINE IS CALLED IF THERE ATE ALL DYNAMIC MEMORY S	ARE MULTIPLE ASSEMBLIES	TO
			01FA 01FA 01FA	286 ; 287 ; 288 :		ERS NOT SAVEDIN BETWEEN		
			01FA 01FA	289 290 MAC_DI	AL_MEM:			
			01FA 01FA 01FA	291 ; TEAI	_	MBOL PAGES		
50 51	0000'DF 0A 1400 8F 0085 EF	0F 1D 3C 30 11	01FA 01FF 0201 0206 0209 020B	289 MAC_DI 290 MAC_DI 291 : DEAI 292 : DEAI 293 10\$: 295 296 297 298 299 :	REMQUE BVS MOVZWL BSBW BRB	aw^mac\$gl_sym_pagl,r0 20\$ #<512*stb\$k_pg_miss>,r1 DEAL_MEMORY 10\$	GET NEXT CHUNK OF PAGE IF V-SET THEN ALL DONE GET SIZE OF CHUNK DEALLOCATE THE MEMORY FREE ALL SYMBOL PAGES	S TO DEALLOCATE
			020B	300 : NOW	DEALLOCAT	E THE INTERMEDIATE FILE		
52	0000°CF 50 52 0D 52 62	D0 D0 13	020B 0210 0213 0215	302 20\$: 303 30\$: 304	MOVL MOVL Beql	W^MAC\$GL_INTQUE,R2 R2,R0 40\$	POINT AT THE INTERMEDITARY MORE BLOCKS?	ATE FILE
51	52 62 13F4 8F 006E EE	D0 13 D0 30 11	0218 0210 0220 0222 0222 0222	301 ; 305 ; 305 ; 305 ; 305 ; 306 ; 307 ; 308 ; 309 ;	MOVL MOVZWL BSBW BRB	(ŘŽ),RZ #INT\$K_BUFSIZ,R1 DEAL_MEMORY 30\$	ANY MORE BLOCKS? IF EQL NO YESLINK TO NEXT GET SIZE OF THE BLOCK DEALLOCTE THE BLOCK DEALLOCATE WHOLE INTER	. FILE
			0555 0555	309 ; 310 ; DEAL 311 :	LOCATE AN	Y MACROS DEFINED		
59 58	0000°CF 0080 8F 57 89 0D 56 57 08 57 66	9E 30 13 00 13 00 30	<i>UZZ1</i>	310 : DEAL 311 : 312 40\$: 313 314 50\$: 315 316 60\$: 317	MOVAB MOVZWL MOVL BEQL MOVL BEQL MOVI	W^MAC\$AL_UMCHSHTB,R9 # <hashsz+1>,R8 (R9)+,R7 70\$ R7,R6 70\$ (R6),R7</hashsz+1>	POINT TO MACRO HASH TAI COUNT OF THE ENTRIES GET NEXT BUCKET POINTER IF EQL NONE SET POINTER INTO R6 IF EQL NO MORE GET POINTER TO NEXT MNI DELETE THE MACRO DEF. CONTINUE DELETING ON TO DELETE ALL MACRO DEFS.	
	FDC4' F3 EB 58	30 11 F5	0239 0230 023E 0241	319 320 321 70 \$:	MÖVL BSBW BRB SOBGTR	MACSDEL_MAC_DEF 60\$ R8,50\$	DELETE THE MACRO DEF. CONTINUE DELETING ON TO DELETE ALL MACRO DEFS.	HIS BUCKET
			0241 0241	323 : DELI 324 :	TE THE FR	EE PAGES LIST		
50 51	0000 DF 0A 0000 CF 003E EF	0F 1D 3C 30 11	0241 0246 0248 0240 0250 0252 0252 0252 0257	314 50\$: 315 60\$: 317 318 319 70\$: 320 70\$: 322	REMQUE BVS MOVZWL BSBW BRB	aw^mac\$gl_free_lst,r0 90\$ w^mac\$gk_1_pg_siz,r1 deal_memory 80\$	GET A PAGE IF V-SET NO MORE GET SIZE OF PAGE DEALLOCATE THE PAGE CONTINUE	
			0252 0252 0252	330 ; 331 ; DEAI 332 :	LOCATE TH	E MACRO LIBRARY QUEUE AND	THE INPUT FILE QUEUE	
50 00000000	0000'DF 13 '8F 50	0f 1D D1	0252 0257 0259	333 90\$: 334 335	REMQUE BVS CMPL	aw^mac\$gl_mlb_que,r0 100\$ RO,#MAC\$SYSLIB_MLF	GET NEXT MLB TO RELEASE IF VS NO MORE IS THIS SYSLIB?	

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#2,G^LIB\$FREE_VM

:AND THE SIZE

FREE THE MEMEORY

; CLEAR THE STACK

PUSHL

CALLS

ADDL2

RSB

370

371

372

0290

02A3

02A6

05

Ó2 80

5E

00000000 GF

R1

#2*4,SP

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V04-000

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Page 11 (6)
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```
-SBTTL INITIALIZE FOR ONE PASS THROUGH THE SOURCE
                                        02A7
02A7
                                        02A7
                                                       : FUNCTIONAL DESCRIPTION:
                                        02A7
                                                                  THESE ROJTINES INITIALIZE THE STORAGE FOR ONE PASS THROUGH
                                                                  THE SOURCE.
                                        02A7
                                        02A7
                                                          CALLING SEQUENCE:
                                        02A7
                                                                              MACSINITP1
                                        02A7
                                                                   JSB
                                                                             MACSINITP2
                                        02A7
                                                  387
388
                                        02A7
                                                          INPUT PARAMETERS:
                                        02A7
                                                  389
                                        02A7
                                                                  NONE
                                        02A7
                                        02A7
                                                          IMPLICIT INPUTS:
                                                  392
393
                                        02A7
                                        G2A7
                                                                  FOR MACSINITP1 IT IS EXPECTED THAT MACSGL FLAGS HAS BEEN
                                                  394
                                                                  ZEROED AND THAT R11 POINTS TO THE FLAGS.
                                        02A7
                                                  395
                                        02A7
                                        02A7
                                        02A7
                                        02A7
                                                       MACSINITP2:
                                                                                                               ENTRY POINT FOR PASS 2 INITIALIZATION
                                                                             W^MAC$GL_SYMPGPTR,RO
              50
                    0000'CF
                                        02A7
                                                  399
                                                                                                               GET POINTER TO LAST PAGES ALLOCATED
                                                                  MOVL
                                  13
                           05
                                        02AC
                                                  400
                                                                  BEQL
                                                                                                               : IF EQL NONE ALLOCATED
                                                                             (RO), W^MAC$GL_SYM_PAGL ; LINK LAST PAGES INTO SYMBOL PAGE QUEUE W^MAC$AL_USYHSHTB,R9 ; POINT TO USER SYMBOL HASH TABLE ; LOAD UP SIZE OF TABLE
             0000'CF
                           60
                                  0E
                                        02AE
                                                  401
                                                                   INSQUE
                                  9E
3C
30
                                        02B3
              59
                    0000 CF
                                                  402 25:
                                                                  MOVAB
                                                                                                               LOAD UP SIZE OF TABLE SORT THE SYMBOL TABLE
                    0080 8F
                                        02B8
                                                 403
                                                                  MOVZWL
                                                                             MAC$SORT_TABLE ;SORT_THE SYMBOL_TABLE

W^MAC$GQ_RNT_P2 ;STACK_TIMING_BLOCK_ADDRESS

#1,W^MAC$TIMER_ON ;START_TIMING_PASS_2

#FLG$V_P2,(R11),10$ ;FLAG_PASS_2 IS_UP

#0,(SP),#^A/ /,#MAC$K_SBT_SIZ,- ;BLANK_FILL_SUBTITLE_BUFFER

W^MAC$AB_SBT_IDNT

W^MAC$AB_IDENT,R6 ;POINT_TO_IDENT_STORAGE

(PA)+ P7 ;GET_LENGTH_OF_IDENT
                        FD40'
                                        02BD
                                                  404
                                                                  BSBW
                    0000'CF
                                  9F
                                        0200
                                                  405
                                                                  PUSHAB
                                  FB
L3
20
             0000'CF
                                        0204
                           01
                                                  406
                                                                  CALLS
                                        0209
                00 6B
                                                  407
                           0E
                                                                  BBCS
0000'8F
             20
                    6E
                           00
                                        02CD
                                                 408 10$:
                                                                  MOVC5
                    0000'CF
                                        0204
                                                  409
                    0000°CF
                                        0207
                                                  410
             56
                                                                  MOVAB
                                  9Å
13
                                                                             (R6)+,R7°
                                        02DC
                                                                                                               GET LENGTH OF IDENT
                    57
                                                 411
                                                                  MOVZBL
                           86
                                                                             INIT 0 ; IF EQL NO IDENT
R7, (R6), W^MAC$AB_SBT_IDNT ; COPY IDENT INTO SUBTITLE BUFFER
WTAB, R7, W^MAC$AB_SBT_IDNT ; FIND ANY TABS?
                                        02DF
                            1F
                                                                  BEQL
                                  28
3A
      0000'CF
                           57
                                        02E1
                                                                  MÖVC3
      0000 ° CF
                    57
                           09
                                        02E7
                                                  414 20$:
                                                                  LOCC
                                   13
                           11
                                        02ED
                                                                             INIT_0
                                                                                                               ; IF EQL NO
                                                  415
                                                                  BEQL
                                  90
                                        02EF
                                                                             #^A/T/,(R1)
                                                                                                               YES--CHANGE TO SPACE
                    61
                                                 416
                                                                  MOVB
                                  11
                                        02F2
                                                                  BRB
                                                                             20$
                                                                                                               CHANGE ALL THE TABS
                                                  417
                                        02F4
                                                  419 MACSINITP1:
                                        02F4
                                                                                                               :REF LABEL
                                                 420
                                                                             W^MACSGQ_RNT_P1 #1,W^MACSTIMER_ON
                     0000'CF
                                        02F4
                                                                  PUSHAB
                                                                                                               STACK TIMING BLOCK ADDRESS
             0000'CF
                           01
                                        02F8
                                                                  CALLS
                                                                                                               START TIMING PASS 1
                                  FB
                                                 422
423
424
425 INIT_0:
426
427
428
                                        02FD
                        FDOO'
                                                                              MACSSETFRAME
                                                                  BSBW
                                                                                                               GET BLOCK OF MEMORY AND SETUP
                                        0300
                                                                                                               TO STORE IN INT. BUFFER (SETUP R9)
                                        0300
                                        0300
                                                                             W^MAC$GL_LIST_LVL
W^MAC$GL_LINE_CNT
W^MAC$GL_LPTPAG
                                                                                                               :START LISTING AT LEVEL O :ZERO PAGE LINE COUNTER
                     0000'CF
                                        0300
                                                                  CLRL
                     0000'CF
                                  D4
                                        0304
                                                                  CLRL
                     0000°CF
                                   D4
                                        0308
                                                                  CLRL
                                                                                                               FIRST LISTING PAGE NUMBER
                                                                  MÖVZBL #1.WAMACSGL SRCPAG
CLRL WAMACSGL LINENUM
             0000'CF 01
                                   9A
                                        030C
                                                                                                               FIRST SOURCE PAGE NUMBER
                     0000'CF
                                        0311
                                   D4
                                                                                                               :FIRST LINE
```

		ENTRY INITI	POINT ALIZE	TO V	AX-11 MA	CRO THROUGH	D 14 16-SEP-1984 02 THE SOUR 5-SEP-1984 01	2:10:18		12 (6)
	0000'CF 6B 08 6B 0A	D4 C8	0315 0319 0310	431 432 433		CLRL BISL2	W^MAC\$GL_LINBAS #FLG\$M_CONT,(R11)	; INIT LINE BASE ALSO ; INDICATE CONTINUATION OK		
50 50	6B 0A 0000'CF	C8 9E D0 D0	0310	433 434	10\$:	RRCC	#FLGSV NEWPND.(R11).105	POINT TO PRIMARY INPUT BLOCK		
	51 50	ĎĞ	0320 0325 0328	435	100.	MUVL	W^MAC\$GL_PRMINBL,RO RO,R1	COPY IT		
0000	CF 51 80 50	DO 00	0328 032D	436 437		MOVL MOVL	R1,W^MAC\$GL_INPUTP R0,(R0)+	:SET UP INPUT POINTER		
	80	D4	0330	438		CLRL	(RÓ)+	LINK IS TO ITSELF THERE IS NO NEXT LINE		
80	0000°CF 80	9E	0332	439 440		MOVAB CLRQ	W^MAC\$GETLIN, (RO)+	SET ROUTINE TO GET NEXT LINE		
	80 80	04	0337 0339	441		CLRL	(RO)+ (RO)+	CLEAR IFLVL AND IFVAL		
5/1	0000165	94	033B 033D	442		CLRB	(RO)+	:CLEAR ARG COUNT	-	
50	0000'CF FCBB'	DO 31	0542	444		MOVL BRW	W^MAC\$GL_INPQUE,RO MAC\$OPEN_INPUT	GET PTR TO FIRST FDB IN INP. QUEUE OPNE FILE AND RETURN	-	

MACSMAIN VO4-000

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446 .SBTTL PERFORM PASS 1 0345 0345 448 ;++ 449 450 PASS 1 0345 451 452 453 0345 0345 0345 454 MACSPASS1: 0345 455 00 6B 0E E5 BBCC #FLG\$V_P2,(R11),.+1 ;THIS IS PASS 1 0349 456 0349 457 COPY THE INITIAL SETTINGS OF THE ENABLE/DISABLE AND LIST/NLIST FLAGS TO THE TOKEN BYTE IN EACH OF THE SYMBOL BLOCKS SO THEY 0349 458 0349 459 CAN BE RESET AT THE START OF PASS 2. 0349 460 W^LST\$G_DIRLIST,R5 ;POINT TO DIRECTIVE LIST SYM\$L_VAL(R5),SYM\$B_TOKEN(R5) ;SAVE THE INITIAL SETTING SYM\$L_LINK(R5),R5 ; Link to next 0349 55 0000'CF 461 MOVAB 0B A5 90 034E 05 A5 462 105: MOVB 0353 DO 463 MOVL 12 0356 464 BNEQ 10\$ W^ENB\$G_OPTIONS,R5 ;POINT TO ENABLE OPTIONS SYM\$L_VAL(R5),SYM\$B_TOKEN(R5);SAVE INITIAL SETTING SYM\$L_LINK(R5),R5 ; Link to next 55 0000 9Ē 0358 465 MOVAB 0B A5 9Õ 035D 205: 05 **A5** 466 MOVB 55 65 DO 0362 467 MOVL 12 0365 468 BNEQ 20\$ **F**6 :LOOP FOR ALL \$INTOUT_LW INTS_NEWP, #PSECT\$MAIN; ABSOLUTE PSECT \$INTOUT_LW INTS_NEWP, #PSECT\$BLANK; BLANK PSECT \$INTOUT_LW INTS_PSECT, #PSECT\$BLANK; START IN BLANK PSECT MOVL SP, W^MAC\$GL_SAVE_SP; SAVE STACK POINTER BSBW MAC\$PARSE; CALL PASS 1 DRIVER 469 470 0367 0373 037F 038B 0000'CF 5E 30 0390 473 FC6D' 0393 474 0393 475 PASS 1 IS COMPLETED 476 0393 477 0393 0393 478 THE ROUTINE MACSPARSE DOES NOT RETURN. RATHER, WHEN THE END STATEMENT IS SEEN (OR FORCED), CONTROL WILL COME TO MACSPASSI END 0393 0393 480 FOR A NORMAL END OF PASS 1 OR TO MACSABORT_PASS1 IF IT IS 0393 481 ABORTED. 0393 0393 483 MAC\$ABORT_PASS1:: 0393 BSBW FC6A' 30 484 MAC\$CLS_DEL_OBJ :CLOSE AND DELETE OBJECT FILE 0396 485 MAC\$PASSI_END:: MÖVL W^MAC\$GL_SAVE_SP,SP \$INTOUT_X INT\$_END BSBW MAC\$FIXFRAME 0000°CF 0396 SE. DO 486 RESTORE STACK POINTER 039B 487 END OF INTERMEDIATE FILE 30 FIX THE COUNT WORD IN LAST BUFFER FC5C' 03A1 488 TO VIRTUAL MEMORY
ZERO LINK IN LAST BUFFER
SO THAT PASS 2 CAN DETECT ERROR 03A4 489 0004 'DF 03A4 490 aw^MAC\$GL_INTQUE+4 **D4** CLRL 03A8 491 PUSHAB W^MAC\$GT_SCB CALLS #1,G^SUM\$CLOSE \$DISCONNECT RAB=W^MAC\$INPUT_RAB 03A8 492 Suplly SUM control block address 0000'CF 9F 00000000 GF 03AC 493 FB 01 Close undate files DISCONNECT THE RECORD STREAM 03B3 494 038E 0303 495 WAMACSGL_CURINFDB,RT FAB=8(RO) POINT TO CURRENT INPUT FOB 0000'CF D0 MOVL CLOSE THE INPUT FILE 496 **S**CLOSE 497 CLOSE MACRO LIBRARY FILES 03CD MACSCLOSE_LIB FC30' 30 BSBW STACK TIMING BLOCK ADDRESS WAMACSGO RNT PI 0000 CF 9ř 03D0 498 PUSHAB #1,WAMACSTIMER_OFF STOP TIMING PASS 1 PASS 1 IS COMPLETED FB 05 03D4 499 0000'CF 01 CALLS 0309 500 RSB 03DA 501 03DA 502 .END MACSMACRO_ENTRY

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EOI EOI EOI FLI FLI FLI FL FLI FL FL FLI FL FL FLI FL FLI FLI FLI FLI FL FL FL(FL FLI FL FĽ FLI FLI FLI FL FL FLI FLI FLI FLI FL FL

FL FL

MACSMAIN Symbol table	ENTRY POINT TO	VAX-11 MACRO	G 14	16-SEP-1984 02:10:18 VAX/VMS Macro V04-00 5-SEP-1984 01:49:19 [MACRO.SRC]MAIN.MAR;1	Page 15 (7)
FLGSV_OPNDCHK FLGSV_OPRND FLGSV_OPTVFLIDX FLGSV_SCADLST FLGSV_SP2 FLGSV_SEGFIL FLGSV_SEGFIL FLGSV_SPECOP FLGSV_SPLALL FLGSV_SPLALL FLGSV_SPLALL FLGSV_TOUTELG FLGSV_UPAFLG FLGSV_UPAFLG FLGSV_UPAFLG FLGSV_UPMARG FLG	= 00000001 = 000000019 = 000000019 = 000000019 = 000000012 = 000000012 = 000000024 = 000000025 = 000000025 = 000000025 = 000000025 = 000000000 = 000000000 = 000000012 = 000000013 = 000000012 = 000000013 = 000000013 = 00000013 = 00000013 = 00000015 = 00000017 = 00000018 = 00000017 = 000000017 = 0000000017 = 000000017 = 0000000017	03	INTS SETFLAG INTS SETLONG INTS SETLONG INTS SPIC INTS STIB INTS STIB INTS STIKEPT INTS STKEPT INTS STKEPT INTS STKEPT INTS STKE INTS STKEPT INTS STKEPT INTS STKE INTS STRB INTS	00000393 RG 03 ******** X 03 ******* X 03	

MACSMAIN ENTRY POINT TO Symbol table	VAX-11 MACRO	н 14	16-SEP-1984 02:10:18 VAX/VMS Macro V04-00 Page 16 5-SEP-1984 01:49:19 [MACRO.SRC]MAIN.MAR;1 (7) ')
MACSGL_CURINFDB ******* X MACSGL_ERR_LIST ******* X	03 MAC\$ 04 MAC\$ 05 MAC\$ 06 MAC\$ 07 MAC\$ 08 MAC	TERM_FAB TERM_RAB	******	
MACSGL FLAGS ****** X	03 MACS	TIMER_OFF	****** X 03	
MACSGL_FREE_LST ****** X MACSGL_FREE_LST ******* X	US MACS	TIMERTON O_EXIT	****** X 03 000009A R 03	
MACSGL IMP BEG ****** X	03 MAC	DEAL_MEM	0000017A R 03	
MACSGL IMP BEG ****** X MACSGL INI AP ****** X MACSGL INI FP ****** X	O3 MAC	SUBSTS K_BLKSIZ	= 0000007D	
MACDGL_INI_SP	03 MLF\$	K_RSFNLN	00000177 = 000000FF	
MACSGL_INPQUE	03 MLF\$	LICTINDEX	00000014	
MACSGL_INPUTP ****** X MACSGL_INTQUE ******* X	03 MLFS	L_MCDEF L_QLINK	00000008 00000000	
MACSGL_INTQUE ****** X MACSGL_LINBAS ****** X MACSGL_LINENUM ******* X	03 MLF\$	QTFNAMDS	000000C	
MACSGL_LINENUM	03 MLFS	T [*] FNAM X [*] NAMRIK	00000078 00000018	
MACSGL_LINE_CNT ****** X MACSGL_LIST_IT ******* X	03 NAMS	X NAMBLK Bersl	= 00000003	
MACSGL_LIST_LVL ****** X MACSGL_LN_PAGE ******* X	05 NAMS	C_BLN C_MAXRSS	= 00000060 = 000000FF	
MACSGL_LPTPAG ******* X	03 NAMS	LĪRSA	= 00000004	
MACSGL_LSB ******* X MACSGL_MLB_QUE ******* X	03 OBJ\$	K_BUFSIZ	= 00000200 = 00002000	
MACSGL_PRMINBL ****** X	03 OPF\$	M_LASTOPR M_OPTEXP	= 00002000 = 00001600	
MACSGL_PSC_MAX ****** X	03 OPF\$	V_LASTOPR	= 0000000D	
MACSGL_PSECTT ****** X MACSGL_PSECTPTR ****** X	03 UPF 3	V_OPTEXP B_NAME	= 0000000C 0000004	
MACSGL_SAVE_SP ****** X	03 PSC\$	B_SEG	000000C	
MACSGL_SAVE_SP ****** X MACSGL_SRCPAG ******* X MACSGL_STATUS ******* X MACSGL_SYMPGPTR ****** X MACSGL_SYM_PAGL ******* X	03 PSC\$	B_UNUSED K_BLKSIZ	0000000B 00000013	
MACSGL_SYMPGPTR ****** X	03 PSC \$	K_NO_OPTNS	= 0000000A	
MACSGL_SYM_PAGL ****** X MACSGQ_LNKOPT ****** X	03 PSC\$ 03 PSC\$	L_CURLOC	000000F 0000000	
MACSGQ_RNT_INI ****** X	03 PSC\$	L_LINK L_MAXLGTH	0000005	
MAC\$GQ_RNT_P1 ****** X MAC\$GQ_RNT_P2 ******* X	03 PSC\$	M_ABS M_ALIGNFLG	= FFFFFF7 - 00004000	
MAC\$GQ_RNT_TOT ****** X	03 PSC \$	M_ALLOPINS	= 00004000 = 00003FF	
MACSGT_SCB ****** X	03 PSC\$	M_BYTE	= 00004000	
MAC\$INITP1 000002F4 R MAC\$INITP2 000002A7 R	03 PSC\$	M_CON M_DEFAULT	= FFFFFFB = 000001C8	
MACSINPUT_RAB ****** X	03 PSC\$	M_EXE	= 000000C0	
MACSINPUT_RLFNM ****** X MACSINP_NAM_BUF ****** X	03 PSC S	M_GBL M_LCL	= 00000010 = FFFFFEF	
MACSINTOUT_T_LW ******* X	03 PSC\$	M_LIB M_LONG	= 00000002	
MACSINTOUT X ****** X MACSK HD SIZE ******* X	03 PSC\$	M_LUNG M_NOEXE	= 00004800 = FFFFFBF	
MACSK_SBT_SIZ ****** X	03 PSCS	MINOPIC	= FFFFFFE	
MAC\$LĀST_CHANCE 00000080 RG MAC\$MACRO_ENTRY 00000000 RG	05 PSC S 03 PSC S	M_NORD M_NOSHR	= FFFFFFFFF = FFFFFFFFFFFFFFFFFFFFFFFFF	
MACSOPEN_INPUT ****** X	03 PSC\$	MINOVEC	= FFFFDFF	
MACSPASSI ****** X 00000345 R	03 PSC\$	M_NOWRT M_OVR	= FFFFFEFF = 0000004	
MACSPASSI_END 00000396 RG	03 PSC\$	M_PAGE	= 00006400	
MACSPASS2 DRIVR ****** X	O3 PSC\$	M_PIC	= 00000001 = 00004000	
MACSSETFRÂME ****** X MACSSETUP 0000010C R	03 PSC\$	M_QUAD M_RD	= 00004000	
MAC\$SORT_TABLE ****** X	03 PSC\$	M_REL	= 00000008	
MAC\$SYSLIB_MLF ****** X MAC\$SYSLIB_SET ****** X	03 PSC\$ 03 PSC\$ 03 PSC\$	M ⁻ shr M ₋ usr	= 00000020 = FFFFFFD	
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MA Ps

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SYMSM DEBUG

SYMSM_DELMAC

SYMSM_EXTRN

SYMSM_GLOBL

SYMSM_LOCAL

SYMSM RELPSECT

SYMSM ODBG

SYMSM SUPR

SYMSM_WEAK

SYMSM REF

SYMSM DEF

SYMSM_EPT

= 00000020

= 00000001

= 00000200

= 00000200

= 00000008

= 00000004

= 00000040

= 00000400

= 00000080

= 00000800

= 00004000

= 00000002

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Tat

Psect synopsis!

PSECT name	Allocation	PSECT No.	
. ABS BLANK . SABSS MACSRO_CODE_COM	00000000 (0.) 00000000 (0.) 00000177 (375.) 000003DA (986.)	00 (0.) 01 (1.) 02 (2.) 03 (3.)	

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.05	00:00:01.55
Command processing Pass 1	103 286	00:00:00.38 00:00:05.88	00:00:04.06 00:00:22.84
Symbol table sort	0	00:00:00.87	00:00:03.25
Pass 2 Symbol table output	116 50	00:00:01.41 00:00:00.19	00:00:06.38 00:00:01.56
Psect synopsis output Cross-reference output	1	00:00:00.02 00:00:00.00	00:00:00.02 00:00:00.00
Assembler run totals	587	00:00:00.00	00:00:39.66

The working set limit was 1350 pages. 52814 bytes (104 pages) of virtual memory were used to buffer the intermediate code. There were 50 pages of symbol table space allocated to hold 918 non-local and 22 local symbols. 502 source lines were read in Pass 1, producing 26 object records in Pass 2. 24 pages of virtual memory were used to define 22 macros.

! Macro library statistics !

Macro library name

Macros defined

\$255\$DUA28:[MACRO.OBJ]MACRO.MLB:1
\$255\$DUA28:[SYSLIB]STARLET.MLB:2
TOTALS (all libraries)

15 24

1017 GETS were required to define 24 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:MAIN/OBJ=OBJS:MAIN MSRCS:MAIN/UPDATE=(ENHS:MAIN)+LIBS:MACRO/LIB

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